

Message Text

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TAGS: US, UR, TECH, TGEN, ENRG

SUBJECT: US-SOVIET ENERGY AGREEMENT: SUPERCONDUCTING
TRANSMISSION (08.0207)

REF: MOSCOW 0839

1. PLEASE DELIVER FOLLOWING LETTER FROM LONG TO
LEVITOV WITH COPY TO MALTSEV.

FEBRUARY 9, 1978 08.0207

PROFESSOR VLADIMIR LEVITOV
DIRECTOR, KRZHIZHANOVSKIY POWER
--ENGINEERING INSTITUTE
MOSCOW, USSR

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DEAR PROFESSOR LEVITOV:

THANK YOU FOR YOUR PROMPT REPLY TO MY LETTER OF
JANUARY 3. I WOULD LIKE TO ASSURE YOU THAT THE US
COMMITTEE AND I VALUE YOUR OPINION CONCERNING THE
PURPOSE OF OUR JOINT WORK AND THE IMPLEMENTATION
OF THE PROGRAM OF COOPERATION. WE FULLY AGREE THAT

EVERY EFFORT SHOULD BE MADE TO IMPLEMENT THE AGREED PRO-
GRAMS SET FORTH IN THE JUNE 1977 PROTOCOL AND BELIEVE THAT

OUR JOINT WORK SHOULD BE MUTUALLY BENEFICIAL AND
COMPATIBLE WITH THE DOMESTIC PROGRAMS IN EACH COUNTRY.

AS REFLECTED IN THE JUNE 1977 PROTOCOL AND IN OUR
DISCUSSIONS IN MOSCOW, WE BELIEVE THAT ORGANIZATIONS
OTHER THAN THE PRINCIPAL EXECUTIVE AGENTS SHOULD BE
INCLUDED IN THE COOPERATIVE PROGRAM AS REQUIRED. THERE-
FORE, I WISH TO RESTATE MY BELIEF THAT ACCESS TO RELEVANT
US AND SOVIET FACILITIES IS CENTRAL TO THE OBJECTIVES OF
OUR COOPERATION SINCE THIS PROVIDES EACH SIDE WITH THE
BROADEST POSSIBLE EXPOSURE TO ONGOING PROGRAMS AND
SIGNIFICANT ACCOMPLISHMENTS. WE DO AGREE THAT THESE
VISITS ARE NOT AN END IN THEMSELVES. WE DO NOT DESIRE
TO VISIT AS MANY FACILITIES AS POSSIBLE JUST FOR THE SAKE
OF ACCESS BUT BELIEVE THAT FACILITIES THAT HAVE A DIRECT
BEARING UPON THE SUCCESS OF OUR AGREED COOPERATION
SHOULD BE INCLUDED IN THE PROGRAM OF JOINT WORK.

DURING OUR JUNE MEETING IN MOSCOW WE ALSO VERBALLY AGREED
THAT THE AGENDAS FOR THE VISITS SHOULD BE MUTUALLY CON-
FIRMED BEFORE THE ARRIVAL OF ANY DELEGATIONS. IN THIS
WAY, THERE WOULD BE NO MISUNDERSTANDING ABOUT THE NATURE
AND SCOPE OF WORK TO BE PERFORMED. THIS IS A COMMON
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PRACTICE UNDER ALL US-USSR ENERGY AGREEMENT WORKING
GROUPS AND WE FIRMLY BELIEVE THAT IT IS IN THE BEST
INTEREST OF OUR OVERALL COOPERATION.

UNFORTUNATELY, IT APPEARS THAT WE HAVE HONEST
MISUNDERSTANDINGS REGARDING THESE POINTS AND WE SHOULD
MAKE CERTAIN TO RESOLVE THEM DURING OUR SIXTH ORGANIZING
COMMITTEE MEETING LATER THIS YEAR.

HOWEVER, IN THE INTEREST OF CONTINUING COOPERATION, I
AGREE THAT STEPS SHOULD PROMPTLY BE TAKEN TO EXCHANGE
VISITS ON THE PROPERTIES OF SUPERCONDUCTING MATERIALS
AND WELCOME YOUR OFFER TO RECEIVE OUR SPECIALISTS AFTER
FEBRUARY 10 ACCORDING TO THE PROGRAM YOU SENT WITH YOUR
LETTER OF OCTOBER 8, 1977. WE APPRECIATE PARTICULARLY
YOUR OFFER OF A VISIT TO THE BAYKOV INSTITUTE OF
METALLURGY AND REQUEST THAT YOU ASK THE DIRECTOR,
PROFESSOR E. M. SAVITSKY, IF OUR SPECIALISTS COULD BE
ALLOWED TO WORK FOR TWO OR THREE DAYS WITH THE BAYKOV
INSTITUTE STAFF ON THE METALLURGY OF CONDUCTORS FOR POWER
TRANSMISSION CABLES. WE REQUEST THAT OUR SPECIALISTS,
MESSRS. SUENAGA AND TAYLOR ARRIVE IN MOSCOW ON FRIDAY,
FEBRUARY 24 AND DEPART ON MARCH 12. WE WILL BE PLEASED
TO RECEIVE YOUR SPECIALISTS AND SUGGEST THEY ARRIVE AFTER

MARCH 27.

ALTHOUGH WE STILL AWAIT THE STATEMENT OF INTERESTS OF YOUR SPECIALISTS AS I REQUESTED IN OUR SEVERAL TELEPHONE CONVERSATIONS, WE OFFER THE ATTACHED AGENDA FOR THE VISIT WHICH PROVIDES FOR 10 DAYS OF EXPERIMENTAL WORK AT BROOKHAVEN NATIONAL LABORATORY. PLEASE LET ME KNOW AS SOON AS POSSIBLE IF THE PROPOSED DATES AND AGENDA ARE ACCEPTABLE TO YOU SO THAT WE CAN MAKE TRAVEL RESERVATIONS AND LABORATORY ARRANGEMENTS.

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I HAVE NOT RECEIVED THE ABSTRACTS OR MANUSCRIPTS OF THE PAPERS YOU ARE SUBMITTING TO THE APPLIED SUPERCONDUCTIVITY CONFERENCE IN PITTSBURGH (SEPTEMBER 25-28) AND DR. BELANGER HAS TOLD ME THAT THE CONFERENCE WILL NOT SELECT PAPERS BY TITLE ONLY. PLEASE SEND THIS MATERIAL AS SOON AS POSSIBLE SO THAT I CAN FORWARD THEM TO DR. BELANGER. HE HAS INVITED YOU AND ME TO PRESENT A JOINT PAPER ON THE US-USSR COOPERATION IN SUPERCONDUCTING TRANSMISSION AND I WILL SEND YOU THE OFFICIAL LETTER OF INVITATION AS SOON AS I RECEIVE IT. I HOPE THAT YOU WILL AGREE TO CO-AUTHOR THIS PAPER WITH ME.

I LOOK FORWARD TO YOUR EARLY REPLY.

YOURS SINCERELY,

H. M. LONG, MANAGER
ELECTRIC ENERGY SYSTEMS
OAK RIDGE NATIONAL LABORATORY.

CC:MR. MALTSEV

ATTACHMENT:

AGENDA

THE FOLLOWING IS THE AGENDA:

PLANNED ACTIVITIES FOR SOVIET VISITORS TO BNL

SUPERCONDUCTING POWER TRANSMISSION PROJECT

1. SHORT SPECIMEN AC LOSS MEASUREMENT AT 4.2 K, US AND
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USSR SPECIMENS - 1 DAY EXPERIMENT.

--DEMONSTRATE AND FAMILIARIZE OUR AC LOSS MEASUREMENT
APPARATUS USING SUPERCONDUCTING TAPES FOR US AND USSR

TRANSMISSION LINES. SOVIETS SHOULD BRING THEIR SPECIMENS
(5 MM X 30 MM OR LARGER).

2. TEMPERATURE DEPENDENCE OF AC LOSSES - 1 DAY
EXPERIMENT.

--JOINT DEMONSTRATION AND MEASUREMENT OF THE TEMPERATURE
DEPENDENCE OF AC LOSSES IN A NB3 SN TAPE.

3. MEASUREMENTS OF AC CRITICAL CURRENT - 1 DAY
EXPERIMENT.

--DEMONSTRATE AC CRITICAL CURRENT MEASUREMENT BY A
TRANSFORMER TECHNIQUE AT 4.2 K.

4. MECHANICAL TESTS - 1- TO 2-DAY EXPERIMENT.

--US AND USSR SPECIMENS.

--DEMONSTRATE AND FAMILIARIZE WITH THE MECHANICAL TESTING
APPARATUS. WE MEASURE THE EFFECTS OF TENSILE STRESS ON
CRITICAL CURRENT DENSITIES OF NB3 SN TAPES. SOVIET
SPECIALISTS SHOULD BRING A COUPLE OF STABILIZED TAPES
(6 MM X 250 MM).

5. GENERAL LABORATORY TOURS - 1 DAY.

A. TRANSMISSION LINE PROJECT.
B. METALLURGY AND MATERIALS SCIENCE DIVISION.
C. ISABELLE.

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6. MEASUREMENT OF AC LOSSES OF TENSILE PRESTRESSED TAPES
2- TO 3-DAY EXPERIMENT.

--WE SHALL MEASURE EFFECTS OF PRETRAINING ON AC LOSSES
OF NB3 SN TAPES. THESE MEASUREMENTS SHOULD GIVE US
INFORMATION ON THE EFFECTS OF ACCIDENTAL STRAINING OF
NB3 SN TAPES DURING MANUFACTURING AND WINDING OF
CONDUCTORS ON AC LOSSES OF THESE TAPES. VANCE

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